Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-13. (Cancelled)

14. (Currently Amended) A computer executable method ~~of converting a format of a first source document to a format of a second source document, the method~~ comprising:

receiving as input a first source document and a first document type definition for the first source document, the first source document conforming to the first document type definition;

receiving as input a target document type definition, the target document type definition being different from the first document type definition;

~~identifying~~ comparing the first document type definition and the target document type definition to identify common patterns, common patterns being patterns common to the first document type definition and ~~second source documents~~ target document type definition, wherein identifying common patterns includes identifying an element that is common to the first and ~~second source documents~~ the target document type definitions but has a different name in the first ~~source document~~ document type definition than in the ~~second source document~~ target document type definition; and

using the ~~identified~~ common patterns identified by comparing the first and the target document type definitions to map automatically elements and sub-elements of the first document type definition in the first source document to recode the first source document according to the target document type definition to equivalent elements and sub-elements ~~in the second source document~~, including ~~mapping~~ changing a first tag name of a first element in the first source document to a different second ~~element in the second source document~~ tag name ~~based on the identified common patterns, the first element and the second element having different element names~~.

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15. (Cancelled)

16. (Currently Amended) The method of claim 14, wherein ~~identifying patterns common to the first and second source documents comprises~~:

~~examining document type definitions for the first and~~the target document type definition was derived automatically from one or more second ~~source~~ documents.

17. (Currently Amended) The method of claim ~~16~~14, ~~further comprising~~wherein:

receiving the first document type definition comprises producing the first document type definition for the first source document if the document type definition for the first source document does not already exist.

18. (Original) The method of claim 14, wherein identifying common patterns ~~common to the first and second source documents~~ comprises:

performing pattern matching between structures defined by the first document type definition and structures defined by the second document type definition.

19. (Cancelled)

20. (Currently Amended) The method of claim 14, wherein identifying common patterns ~~common to the first and second source documents~~ further comprises:

~~matching~~ using heuristics ~~of~~ to find common structure ~~the patterns~~ in the first ~~source document~~document type definition ~~to heuristics of the patterns in~~and the second ~~source document~~document type definition.

21. (Cancelled)

22. (Previously Presented) A computer executable method of converting the format of a source document to the format of a set of source documents, the set of source documents having the first source document, the method comprising:

identifying patterns common to the source document and the set of source documents, wherein identifying patterns includes identifying an element that is common to the first and second source documents but has a different name in the first source document than in the second source document;

mapping elements and sub-elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents, including mapping a first element in the first source document to a second element in the second source document based on the identified common patterns, the first element and the second element having different element names; and

replacing tag names for the each of the elements and sub-elements in the common pattern of the source document with the equivalent tag names of the elements and sub-elements in the common pattern of the set of source documents.

23. (Previously presented) The method of claim 22, wherein identifying patterns common to the source document and the set of source documents comprises:

examining document type definitions for the source document and the set of source documents.

24. (Original) The method of claim 23, further comprising:

producing the document type definition for the source document if the document type definition for the source document does not already exist.

25. (Currently Amended) A computer program residing on a computer-readable medium ~~for converting a format of a first source document to a format of a second source document~~, the computer program comprising instructions operable to cause a computer system to:

receive as input a first source document and a first document type definition for the first source document, the first source document conforming to the first document type definition;

receive as input a target document type definition, the target document type definition being different from the first document type definition;

~~identify~~ compare the first document type definition and the target document type definition to identify common patterns, common patterns being patterns common to the first document type definition and ~~second source documents~~ the target document type definition, wherein to identify common patterns includes to identify an element that is common to the first and ~~second source documents~~ the target document type definitions but has a different name in the first ~~source document~~ document type definition than in the ~~second source document~~target document type definition; and

use the ~~identified~~ common patterns identified by comparing the first and the target document type definitions to map automatically elements and sub-elements in the first document type definition of the first source document to recode the first source document according to the target document type definition to equivalent elements and sub-elements ~~of the second source document~~, including instructions operable to cause the computer system to ~~map~~ change a first tag name of a first element in the first source document to a different second tag name~~element in the second source document based on the identified common patterns, the first element and the second element having different element names~~.

26-27. (Cancelled)

28. (Currently Amended) A computer system comprising:

a storage device for storing a source document and a set of source documents, the source document having a format different from that of the set of source documents, the source document conforming to a first document type definition and the documents in the set of source documents each conforming to a target document type definition; and

a computer processor configured by a mapping program to identify patterns common to the source document and the set of source documents by comparing the first document type definition and the target document type definition and map elements and sub-elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents, wherein to identify patterns includes to identify an element that is common to the first and second source documents but has a different name in the first source document than in the second source document and wherein to map elements includes to map a first element in the first source document to a second element in the second source document based on the identified common patterns, the first element and the second element having different element names.

29. (Currently Amended) The computer program of claim ~~27~~25, further comprising instructions ~~causing~~ operable to cause a computer system to:

produce the first document type definition for the first source document if ~~the~~ a document type definition for the first source document does not already exist.

30. (Currently Amended) The computer program of claim 25, wherein the instructions ~~causing~~ operable to cause a computer system to identify common patterns ~~common to the first and second source documents comprises~~ comprise instructions ~~causing~~ operable to cause a computer system to:

perform pattern matching between structures defined by the first document type definition and structures defined by the second document type definition.

31. (Cancelled)

32. (Currently Amended) The computer program of claim 25, wherein the instructions ~~causing~~ operable to cause a computer system to identify patterns common to the first and second source documents further comprises instructions ~~causing~~ operable to cause a computer system to:

~~match~~ use heuristics ~~of the patterns~~ to find common structure in the first ~~source~~ document type definition ~~to heuristics of the patterns in~~ and the second ~~source~~ document type definition.

33. (Cancelled)

34. (Previously Presented) A computer program residing on a computer-readable medium for converting the format of a source document to the format of a set of source documents, the set of source documents having the first source document, the computer program comprising instructions operable to cause a computer system to:

identify patterns common to the source document and the set of source documents, wherein to identify patterns includes to identify an element that is common to the first and second source documents but has a different name in the first source document than in the second source document;

map elements and sub-elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents, including mapping a first element in the first source document to a second element in the second source document based on the identified common patterns, the first element and the second element having different element names; and

replace tag names for the each of the elements and sub-elements in common pattern of the source document with the equivalent tag names of the elements and sub-elements in common pattern of the set of source documents.

35. (Previously presented) The computer program of claim 34, wherein the instructions causing a computer system to identify patterns common to the source document and the set of source documents comprises instructions causing a computer system to:

examine document type definitions for the source document and the set of source documents.

36. (Previously presented) The computer program of claim 35, further comprising instructions causing a computer system to:

produce the document type definition for the source document if the document type definition for the source document does not already exist.

37. (Currently Amended) The method of claim 1, ~~wherein using the identified common patterns includes~~further comprising:

mapping the elements and sub-elements of the first document type definition in the first source document to recode the first source document according to the target document type definition to equivalent elements and sub-elements ~~in the second source document based on the identified common patterns~~ without user intervention.

38. (Previously presented) The method of claim 22, wherein using the identified common patterns includes:

mapping the elements and sub-elements in the source document to equivalent elements and sub-elements in the set of source documents based on the identified common patterns without user intervention.

39. (Currently Amended) The computer program of claim 25, ~~wherein the instructions to use the identified common patterns to map elements and sub-elements of the first source document to equivalent elements and sub-elements of the second source document comprise~~further comprising instructions to:

map the elements and sub-elements in the first source document to equivalent elements and sub-elements ~~in the second source document~~ based on the ~~identified~~ common patterns without user intervention.

40. (Previously Presented) The computer program of claim 34, wherein the instructions to map elements and sub elements in the common pattern of the source document to equivalent elements and sub-elements in the common pattern of the set of source documents comprise instructions to:

map the elements and sub-elements in the source document to equivalent elements and sub-elements in the set of source documents based on the identified common patterns without user intervention.

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